

## The MINES of ARIZONA

This department is under the direction of Mr. W. E. Doty, the well known mining engineer, who will carefully scrutinize all matters relating to mining in order that only reliable information regarding legitimate enterprises shall find a place here.

The Republican would be pleased to receive information from any part of the state regarding the development of the mining industry. All communications should be addressed: Mining Department Arizona Republican.

A good deal of attention is being paid to the old mining districts south of the railroad from Casa Grande. The area was paid great attention in the early days and the old Verde mine alone made the district quite famous by its production of bonanza strikes.

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### Mining Congress

At the meeting of the Arizona branch of the American Mining Congress, held last week in Phoenix, the efforts with few exceptions were successful, and the business transacted was of a general nature.

**Superintendent Consolidated Mining Co.**  
This property, situated in the Black Canyon, Pinal county, northwest of the Superintendents mountains, has been mined for some time. The mine is now being extended by engineers for eastern people. This property has been shipped from lead and copper ores for some time. Considerable investigation is being made in the Verde district, and it is believed that the Verde mine is one of the best in the Verde district, but its extraction mainly depends upon the successful application of mechanical means. There is little water in the district, and only enough for domestic use.

**Major Mining and Milling Co.**  
The 20-stamp mill and the 1000-foot tunnel of the Phoenix Mining Company, connecting the Big Bend and Verde Creek basins, have been taken for the handling of the area of the Verde mine. The mine is now being extended by engineers for eastern people. This property has been shipped from lead and copper ores for some time. Considerable investigation is being made in the Verde district, and it is believed that the Verde mine is one of the best in the Verde district, but its extraction mainly depends upon the successful application of mechanical means. There is little water in the district, and only enough for domestic use.

**Winkelman District**  
Diamond drilling continues in the Winkelman district. The mine is now being extended by engineers for eastern people. This property has been shipped from lead and copper ores for some time. Considerable investigation is being made in the Verde district, and it is believed that the Verde mine is one of the best in the Verde district, but its extraction mainly depends upon the successful application of mechanical means. There is little water in the district, and only enough for domestic use.

**Rincon**  
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**ARIZONA DIVIDEND PAYERS**  
Shattuck Arizona Copper Company  
Paid No. 11 and Extra Dividend No. 2—A dividend of fifty cents and an extra dividend of fifty cents per share on the Capital Stock of this company, have been declared payable January 20th, 1916, to stockholders of record at the close of business December 31st, 1915. Stock transfer books will be closed from January 1st to 20th, 1916, both days inclusive.

**Calumet & Arizona Dividend**  
The Calumet and Arizona has declared a quarterly dividend of \$1.25 a share.  
In March and June Calumet and Arizona paid 50 cents and \$1 in September.

The Calumet and Arizona dividend

is payable Dec. 20 to holders of record Dec. 19.

The Superior and Pittsburgh Co. declared a dividend of 25 cents a share payable Dec. 20 to holders of record Dec. 19.

With the dividend just declared the Calumet and Arizona will have paid a total of \$7.50 a share of \$22.96 a share.

**Magma Copper Company**  
A quarterly dividend of 50 cents per share has been declared on the stock of this company, payable Dec. 31, to stockholders of record at the close of business on Dec. 18, 1915.

**Ray Consolidated**  
The Ray Consolidated, a \$10 per share, increased its dividends from 25 cents a share to 50 cents, which is equivalent to 20 per cent a year.

The Ray company, which is mining at profit probably the lowest grades of copper ore in Arizona, averaging only 1.5 per cent, also has high grade ore that can be shipped direct to the smelter at Hayden. During the last quarter there was secured from such smelting ore a product of 24,000 pounds of copper. For the quarter there was an average daily output of 775 tons of concentrating ore, shipped to Hayden.

The Ray Consolidated is about to substitute compressed air locomotive handling for its present electrical system underground. While the voltage is low, the latter system has been found dangerous where the slopes or loading stations are steep. The air system has been successful in the Hayden workings under the same conditions known at Ray.

**Usual Phelps-Dodge Extra**  
N. Y.—At a meeting of the directors of Phelps, Dodge & Co. the regular dividend of \$2.50 a share, and an extra dividend of \$1 a share, payable Dec. 20 to holders of record Dec. 18, 1915. The officers of this company have just completed a tour of inspection of their holdings in this state, having visited Hayden, their latest acquisition at Tombstone.

**Old Dominion**  
The output of the Old Dominion Co. for November was 2,420,000 pounds of copper. This compares with 2,570,000 pounds in October and a high point for 1915 of 3,190,000 pounds in July.

**Mascon Mine**  
This property, in Graham county, to which a railroad was built this year from Mexico on the S. P., has been shipping considerable ore with the improved facilities. Shipments of ore during October were 1250 tons, with an expected tonnage for last month. This is enabled by the large tonnage of ore blocked out.

**Gold**  
Nothing gets as hot as much trouble. Now out of the way of the country, according to some reports, were caused by the necessity of shipping two much gold abroad. Now if we are to work ourselves into a panic, it is not the gold that is the trouble, but the shipping of two much gold, it is clear that we are damned if we have too much of it and damned if we have too little.

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**Alaska Copper District**  
The great European war is creating an unusual demand for copper. So short is the supply in Central Europe that they are stripping the cathodes, rosin pipes and other buildings of their copper cover. They are even taking the brass door knobs off of the doors, all over Germany and Austria to use in the manufacture of guns and ammunition. This is likely to continue for a year longer for immediate war purposes, and then when this great war is over, the demand will continue to replace the copper things taken from peaceful uses for warlike ones.

America is the great copper producing country of the world, and there is a good prospect ahead for copper miners in the country for years to come. This prospect is for Arizona and Montana, and stretches even in Alaska. In that territory secured from Russia, during the last fifteen years the Prince William Sound region has become an important copper producing area, and the number of prospecting mines there is constantly increasing. So says the United States Geological Survey press bulletin.

**Geological Survey Cannot Make Assays**  
The United States Geological Survey calls the attention of mining men and others to the fact that it is not equipped for making assays or other laboratory work, and that it is not equipped with sufficient facilities for the treatment of mineral specimens. Many specimens and samples received by the Survey, accompanied by requests for such treatment, with the result that it is impossible to comply. The force of chemists employed is small, and their time is fully occupied by their regular official duties. The Geological Survey has no facilities for making gold and silver assays. The most the Survey geologists can do is to give an off-hand opinion based on a simple examination of the specimens. It might be a matter of surprise to know the large number of answers prepared daily by the Geological Survey, similar to the following:

In reply to your letter, etc., etc., the material you send is merely a

## IN FRENCH TRENCHES JUST BEFORE GREAT DRIVE: SOLDIERS PROTECTED AGAINST DEADLY FUMES OF GERMAN POISON GAS



French soldiers wearing anti-gas masks.

In the terrible battle that is now being waged between the French and the Germans on the western front German poison gases are availing the Germans but little. This picture, which has just reached this country from the vicinity of Lens, shows how the French are protected from the deadly fumes which played such havoc in their ranks a few months ago.

fragment of a quartz pebble. I regret to say that it has no probable value.

A great many other samples received prove to be iron pyrites, or "fool's gold," the same pyrites being taken by the writers for gold.

If an assay is desired, the proper course is to employ a private assayer.

**Tungsten Ore**  
The Tungsten Mining and Milling Co., one of the large purchasers of Tungsten ore, has recently published a revised schedule of purchase prices for Colorado ores. Under prevailing market conditions, tungsten ore of average grade will bring 10 cents per ton, or 2 cents per pound, which sells for \$25 per ton, or at the rate of \$12.50 per ton, a figure double that paid 10 months ago for 60 per cent material, which is now worth \$25 per ton, or \$2500 per ton. Intermediate figures in value per ton are as follows: 50 per cent, \$12.50; 40 per cent, \$10; 30 per cent, \$7.50; 20 per cent, \$5; 10 per cent, \$2.50.

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**Alfalfa Meal**  
This was an exceptionally nice feed, as we had present about 200 hard-headed cattle, big and heavy feeders of the Salt River Valley at that particular hour's run, and it not only demonstrated to them what our machine would do, but it brought up the question of alfalfa meal, and our friends from Wisconsin championed the use of ground feeds to such an extent that the farmers had nothing more to say excepting that ground feeds would be their choice hereafter.

## WHEN IN FLAGSTAFF Stop at the

## Commercial Hotel

Chas. Prochnow, Mgr., Rates \$1 up

## Flagstaff, Ariz.

### Points of Interest Near Flagstaff

Grand Canyon	45 miles
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